

Title (en)
Apparatus and method for instantaneous reacquisition in a network system

Title (de)
Gerät und Verfahren zur augenblicklicher Erfassung in einer Netzanordnung

Title (fr)
Appareil et méthode pour réacquisition instantanée dans un système réseau

Publication
EP 1049270 A3 20030827 (EN)

Application
EP 00303650 A 20000428

Priority
US 30195099 A 19990429

Abstract (en)
[origin: EP1049270A2] A data link network system comprising a central node airborne station and a plurality of ground stations each having multi-channel transmitter/receiver capable of transmitting quadrature phase spread spectrum signals and in phase spread spectrum signals both of which contain data. One of said quadrature channels is maintained as a master channel which provides a master time of day clock in the airborne platform of the network system and the other channel is employed as an adjustable time of day clock channel for resynchronizing ground stations after an outage. When an outage occurs between the airborne station and one of the ground stations the airborne station calculates the propagation time to the ground station and shifts the adjustable channel to transmit a spread spectrum data signal which will arrive in synchronization with the time of day in the ground station that had the outage. The transmitted data signal is instantaneously reacquired by the ground station and the data transmitted is employed to resynchronize the ground station receiver/transmitter with the master clock in the airborne receiver/transmitter.

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H04B 7/185; **H04B 7/212**

IPC 8 full level
H04B 7/185 (2006.01)

CPC (source: EP US)
H04B 7/18504 (2013.01 - EP US)

Citation (search report)
• [A] US 3778715 A 19731211 - HUSTED J, et al
• [DA] US 5559788 A 19960924 - ZSCHEILE JR JOHN W [US], et al
• [A] US 5261118 A 19931109 - VANDERSPOOL II JAN P [US], et al

Cited by
US8014378B1; US7821420B2; US9140547B2

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
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